What is claimed is:

A method of performing power control in a mobile communications system having a base station and a mobile unit, comprising:

detecting an error in reception of predetermined information in a link between the base station and the mobile unit when traffic channels are not being communicated; and,

adjusting a power control element based on the detected error.

- The method of claim 1, wherein detecting the error occurs during a 2. discontinuous transmission mode.
- 3. The method of claim 1, further comprising receiving a pilot channel from the mobile unit over the link, the pilot channel containing the predetermined information.
- The method of claim 1, wherein adjusting the power control element 4. comprises adjusting a ratio of energy per bit to noise spectral density.
- The method of claim 4, wherein adjusting the power control element 5. comprises adjusting a target Eb/No value.
- The method of claim 1/wherein detecting the error comprises detecting 6. the predetermined information over/a given period of time.
- The method of claim 1, wherein detecting the error comprises detecting a 7. given number of samples of the predetermined information.
- The method of claim 7, wherein detecting the error comprises detecting a 8. given number of bits of the predetermined information.

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1	9.	The method of claim 1, further comprising communicating a power
2	control comm	and based on the power control element to affect transmission power of the
3	mobile unit.	
1	10.	The method of claim 1, wherein detecting the error comprises detecting a
2	bit error rate.	
1	11.	The method of claim 1, further comprising receiving the predetermined
2	information o	ver a reverse link.
us/	12.	The method of claim 1, further comprising receiving the predetermined
·æ	information o	ver a forward link.
Figure dies des les les les les les les les les les l	13.	The method of claim 1, further comprising receiving the predetermined
<u>1</u>	information o	ver a link according to a code-division multiple access protocol.
<b>₫</b> ]  = 1	14.	The method of claim 1, further comprising detecting that the base station
_2	is in discontin	uous transmission mode.
· 2	15.	The method of claim 1, further comprising detecting that the mobile unit is
=2	in a discontinu	lous transmission mode.
1	16.	The method of claim 15, wherein detecting that the mobile unit is in
2	discontinuous	transmission mode comprises detecting a power level of a traffic channel
3	transmitted by	the/mobile unit.
1	17.	The method of claim 15, wherein detecting that the mobile unit is in
2	discontinuous	transmission mode comprises detecting a state of a predetermined
3	information fi	eld.

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1	l		18.	The method of claim 1/7, wherein the information field comprises one or		
2	2	more power control bits of a data frame transmitted by the mobile unit.				
1	l		19.	The method of claim 15, wherein adjusting the error control element is		
2	2	based or	n the de	etected error if the mobile unit is detected to be in the discontinuous		
. 3	3	transmission mode, the method further comprising adjusting the error control element				
4	1	based on a frame error rate of traffic channels when the mobile unit is detected to be not				
5	5	in discontinuous transmission mode.				
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	B \		20.	A system for use in a mobile communications system, comprising:		
2	2 2	)		a receiver to receive control signaling and traffic signaling; and		
3	3/			a controller to detect for error in the received control signaling and to		
	4	adjust a power control condition based on detected error.				
5		-				
5	l	2	21.	The system of claim 20, wherein the control signaling comprises a pilot		
	2	channel				
			22.	The system of claim 21, wherein the receiver is adapted to receive code-		
	2	division	ı multip	ole access control signaling.		
Ų	} =		•			
[=] [=]	1		23.	The system of claim 22, wherein the receiver is adapted to receive IS-2000		
· = :		control signaling.				
			J			
1	1	,	24.	The system of claim 20, wherein the traffic signaling is not transmitted		
	2			periods, the controller adapted to detect for error during such periods.		
		J	/			
	1		25.	The system of claim 24, wherein the traffic signaling is not transmitted		
	2			inuous transmission mode.		
		3				
٠,	1.3		26.	The system of claim 20, wherein the control and traffic signaling are		
30	わかい			in a reverse link between a mobile unit and a base station.		
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1	27.	The system of claim 20, wherein the control and traffic signaling are		
2	communicate	d in a forward link between the mobile unit and a base station.		
4B\	28.	The system of claim 20, wherein the power control condition comprises a		
132	ratio of energ	y per bit to noise spectral density.		
1	29.	The system of claim 28, wherein the ratio includes an Eb/No ratio.		
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1	, 30.	An article comprising one or more machine-readable storage media		
2	containing instructions for performing tasks in a mobile communications system, the			
3		nunications system having a mobile unit, a base station, and a link between		
4	the mobile ur	nit and base station, the instructions when executed causing a controller to:		
= 15 = 15 = 16		detect for one or more errors in control signaling received over the link;		
16	and			
17		adjust a power control element based on the detected one or more errors in		
	the control si	the control signaling.		
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=1	31.	The article of claim 30, wherein the one or more storage media contain		
	instructions t	hat when executed cause the controller to increase a target ratio of energy		
13	per bit to noise spectral density if an error rate exceeds threshold.			
1	32.	The article of claim 31, wherein the one or more storage media contain		
2	instructions t	hat when executed cause the controller to decrease the target ratio if the		
3	error rate does not exceed the threshold.			
1	33.	A data signal embodied in a carrier wave comprising one or more code		
2		ntaining instructions for performing tasks in a mobile communications		
3	system, the instructions when executed causing a controller to:			
4	system, the n	monitor one or more errors in receiving predetermined pilot signal		
<del>-1</del> -5	information	when traffic signaling is not being transmitted: and		
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